



# Region 4 Inventory and Monitoring Network

## Mobile Acoustical Bat Monitoring Annual Summary Report

2012

### CACHE RIVER NATIONAL WILDLIFE REFUGE



The Region 4 Inventory and Monitoring Network coordinated acoustical bat monitoring on 39 National Wildlife Refuges and 3 Ecological Services field offices in Regions 2, 3, and 4 in 2012. Surveys will establish baseline inventories of bats at each station and contribute to a landscape-level understanding of bat population trends and habitat associations. Bat call data were collected using Anabat SD2 detectors along 8-30 mile transects following the procedures outlined in the Mobile Bat Acoustical Survey Protocol (USFWS 2012).

This report summarizes bat calls collected along transects at your station in 2012. Calls were classified using EchoClass (v1.1) software, but classification of calls to species is not reported at this time due to ongoing software assessment and validation. Calls were geo-referenced and spatially projected for each survey period to identify relative bat use along transects. We will provide a revised annual summary report, transect shapefiles, and spatially referenced data output files once robust classifications to species are available. For surveys in which GPS data were not collected, a summary of the calls is presented without spatial reference.

All submitted call data and survey metadata have been archived and are available on the Mobile Acoustical Bat Monitoring SharePoint site (<https://fishnet.fws.doi.net/regions/4/nwrs/IM/bats>). Bat call files, GPS data, and survey metadata sheets were reviewed for quality assurance prior to generation of this report. Some submitted data were necessarily excluded due to identified errors in collection processes. All acoustical bat data will be summarized in a comprehensive project annual report following station-level reports.

# CACHE RIVER NATIONAL WILDLIFE REFUGE

## Route Name: CchNWR1 Bisco to George Tract

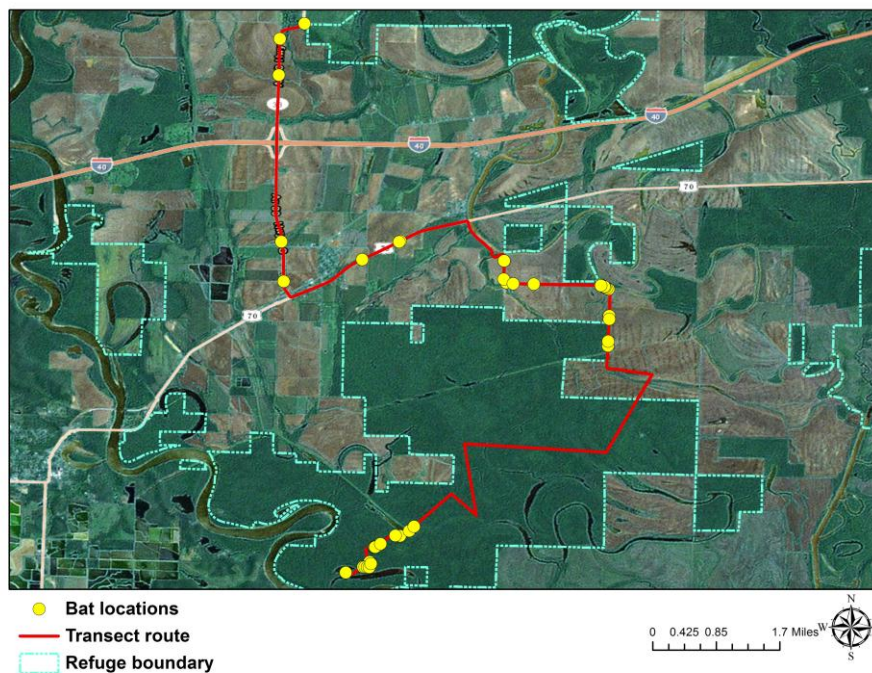
Survey Date: 6/26/2012

Survey route completed? ☒

Number of bat calls recorded: 46

GPS data collected? ☒

Total length of transect (miles): 15.97



<b>Observer 1:</b> Amanda	Anderson
<b>Observer 2:</b> Ruddie	Allen
<b>Start Time:</b> 9:00:00 PM	<b>End Time:</b> 10:45:00 PM
<b>Start Temp:</b> 70	<b>End Temp:</b> 67
<b>Start Wind:</b> 1	<b>End Wind:</b> 1
<b>Start Cloud:</b> 0	<b>End Cloud:</b> 0
<b>Start Moon Visible?</b> <input checked="" type="checkbox"/>	<b>End Moon Visible?</b> <input checked="" type="checkbox"/>
<b>Moon Phase:</b>	1/4

### Survey Notes:

Collector notes: Rough roads, high insect noise, Survey conducted by interns. QA/QC notes: QA/QC of survey data revealed no errors;

# CACHE RIVER NATIONAL WILDLIFE REFUGE

## Route Name: CchNWR1 Bisco to George Tract

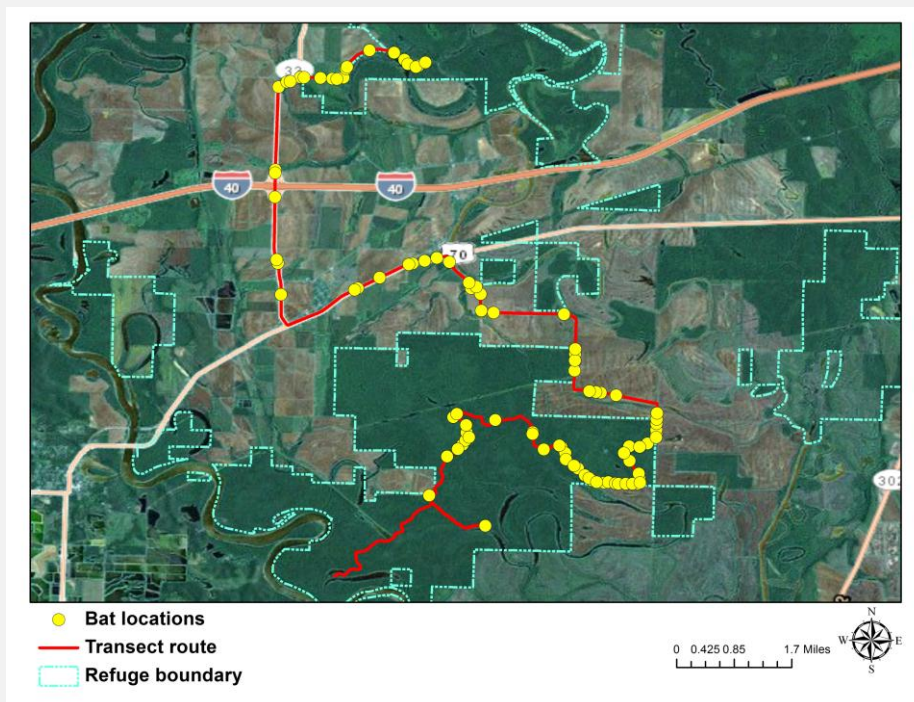
Survey Date: 7/9/2012

Survey route completed? ☒

Number of bat calls recorded: 93

GPS data collected? ☒

Total length of transect (miles): 22.29



<b>Observer 1:</b> Amanda	Anderson
<b>Observer 2:</b> Ruddie	Allen
<b>Start Time:</b> 9:00:00 PM	<b>End Time:</b> 10:30:00 PM
<b>Start Temp:</b> 81	<b>End Temp:</b> 79
<b>Start Wind:</b> 0	<b>End Wind:</b> 0
<b>Start Cloud:</b> 70	<b>End Cloud:</b> 70
<b>Start Moon Visible?</b> <input type="checkbox"/>	<b>End Moon Visible?</b> <input type="checkbox"/>
<b>Moon Phase:</b> 1/2	

### Survey Notes:

Collector notes: Survey conducted by interns. Some recent storms and fog but not specifically indicated to occur during the actual survey. QA/QC notes: QA/QC of transect data revealed no errors.

# CACHE RIVER NATIONAL WILDLIFE REFUGE

**Route Name: CchNWR2 Howell and Revel Tract**

**Survey Date:** 6/14/2012

**Survey route completed?** ☒

**Number of bat calls recorded:** 174

**GPS data collected?** ☐

**Total length of transect (miles):** 0

GPS Data Not Available

<b>Observer 1:</b> Amanda	Anderson
<b>Observer 2:</b> Ruddie	Allen
<b>Start Time:</b> 8:48:00 PM	<b>End Time:</b> 10:24:00 PM
<b>Start Temp:</b> 66	<b>End Temp:</b> 60
<b>Start Wind:</b> 0	<b>End Wind:</b> 0
<b>Start Cloud:</b> 5	<b>End Cloud:</b> 0
<b>Start Moon Visible?</b> <input type="checkbox"/>	<b>End Moon Visible?</b> <input type="checkbox"/>
<b>Moon Phase:</b>	New

## Survey Notes:

Collector notes: No GPS data collected - Problem with unit. Survey done by interns.



# CACHE RIVER NATIONAL WILDLIFE REFUGE

## Route Name: CchNWR2 Howell and Revel Tract

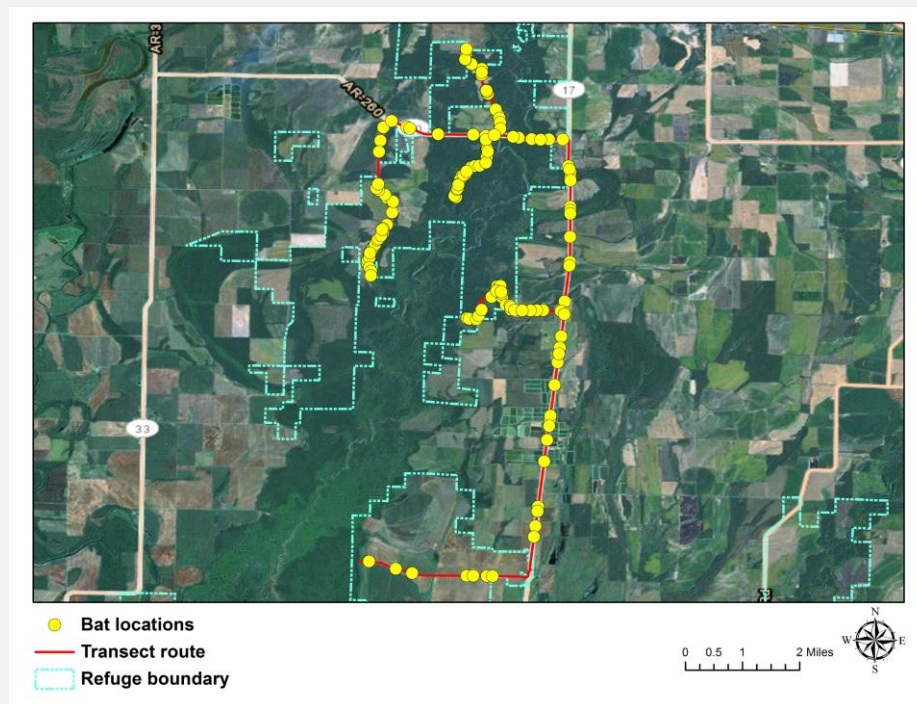
Survey Date: 7/5/2012

Survey route completed? ☒

Number of bat calls recorded: 185

GPS data collected? ☒

Total length of transect (miles): 28.43



Observer 1:	Amanda Anderson		
Observer 2:	Ruddie Allen		
Start Time:	8:50:00 PM	End Time:	10:15:00 PM
Start Temp:	90	End Temp:	87
Start Wind:	2	End Wind:	2
Start Cloud:	5	End Cloud:	5
Start Moon Visible?	<input type="checkbox"/>	End Moon Visible?	<input checked="" type="checkbox"/>
Moon Phase:	Full		

### Survey Notes:

Collector notes: Survey done by interns; QA/QC notes: QA/QC of survey data revealed no errors.